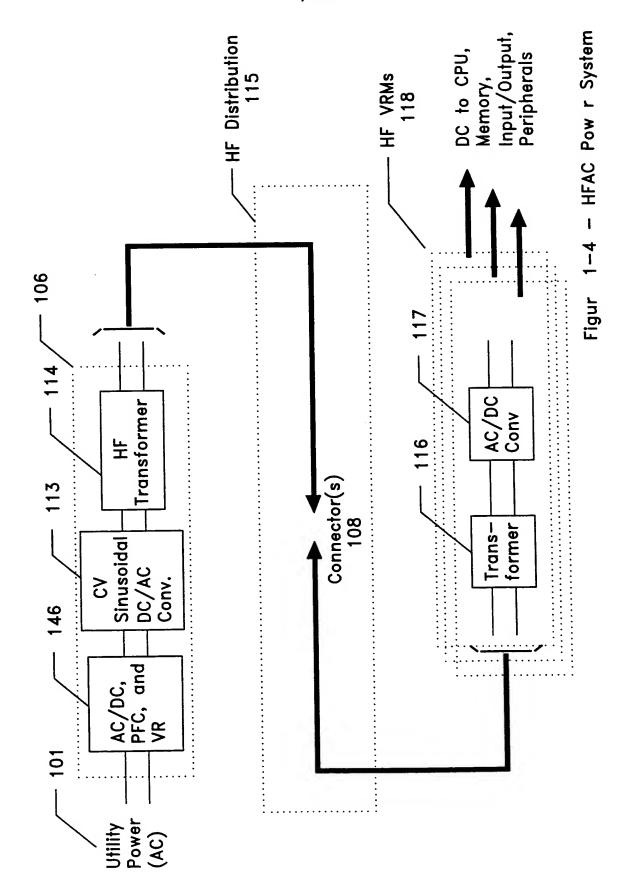


Traditional Technology



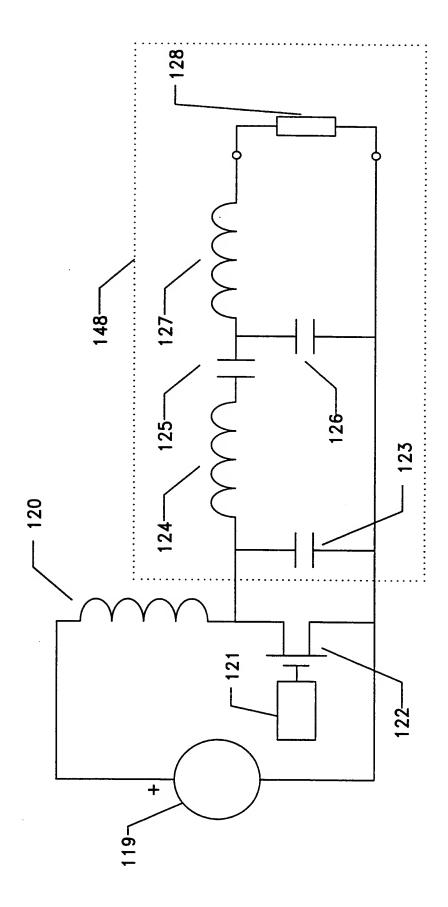
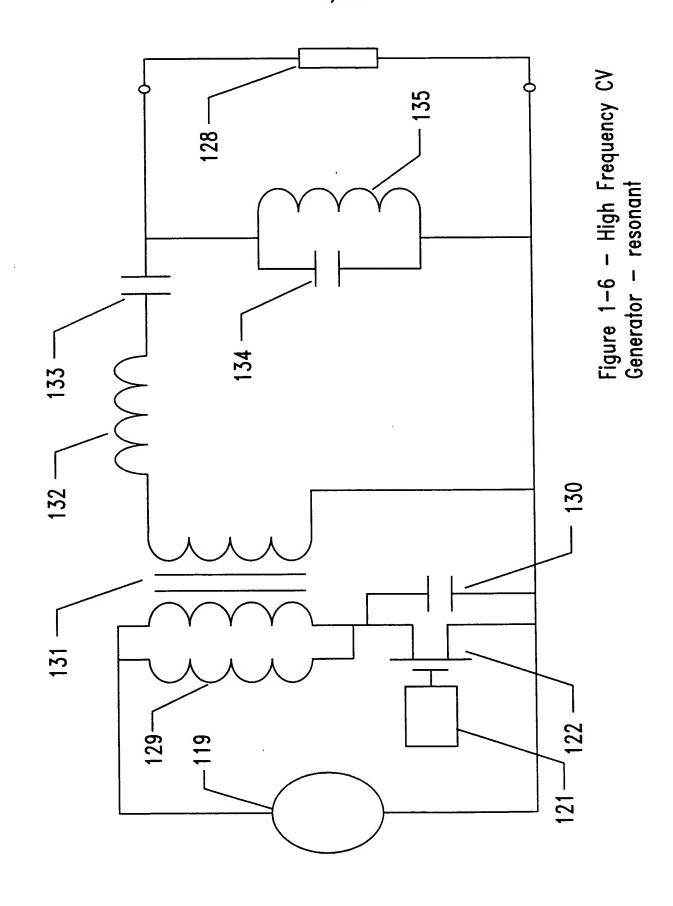


Figure 1—5 — High Frequency CV Generator — non-resonant



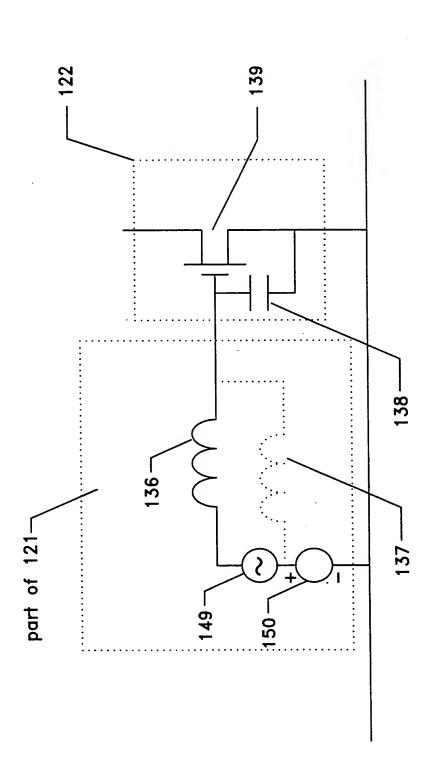


Figure 1-7 - Switch Drive Details

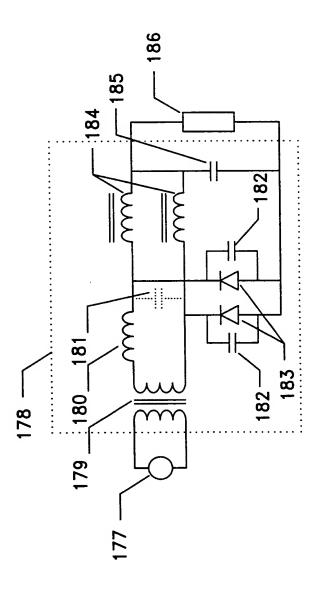


Figure 1-8 - Rectifier Circuit

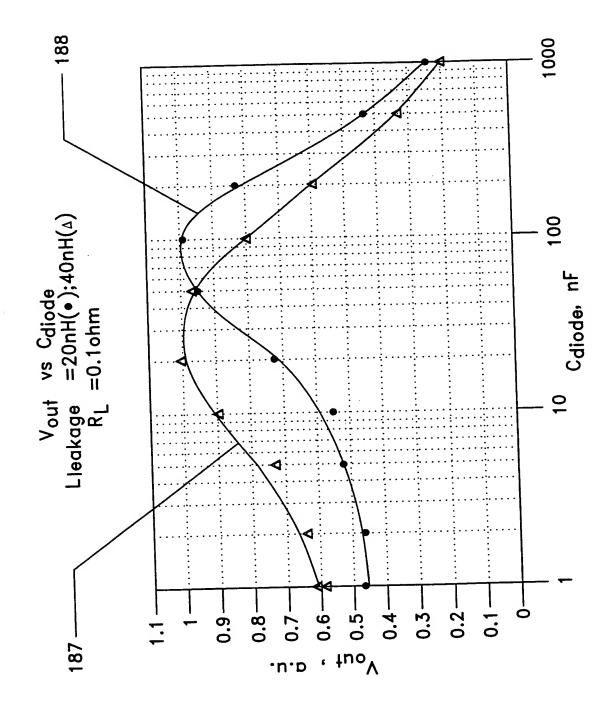
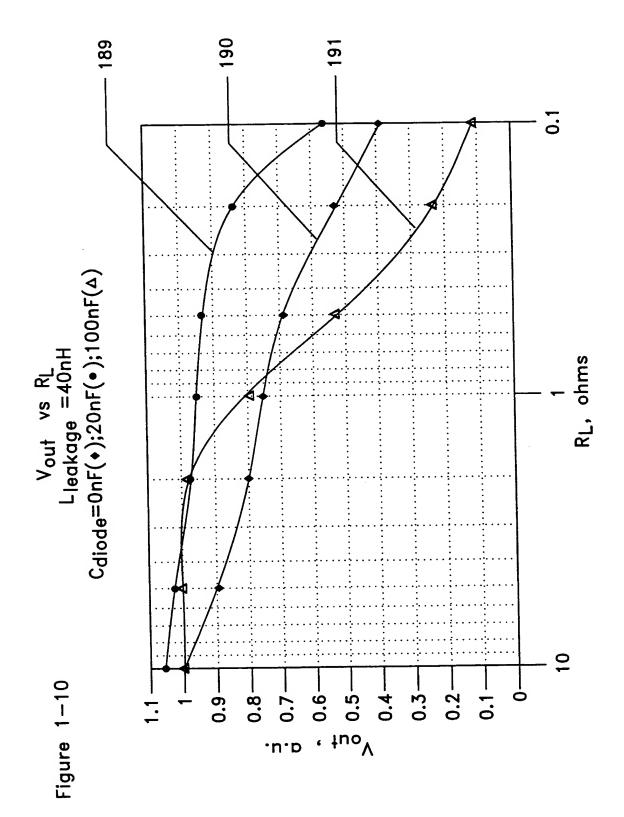
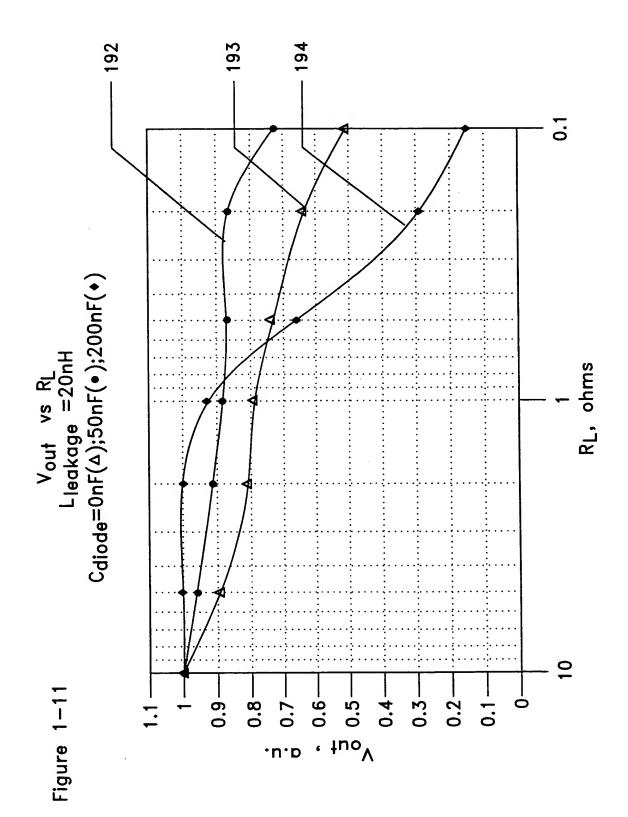
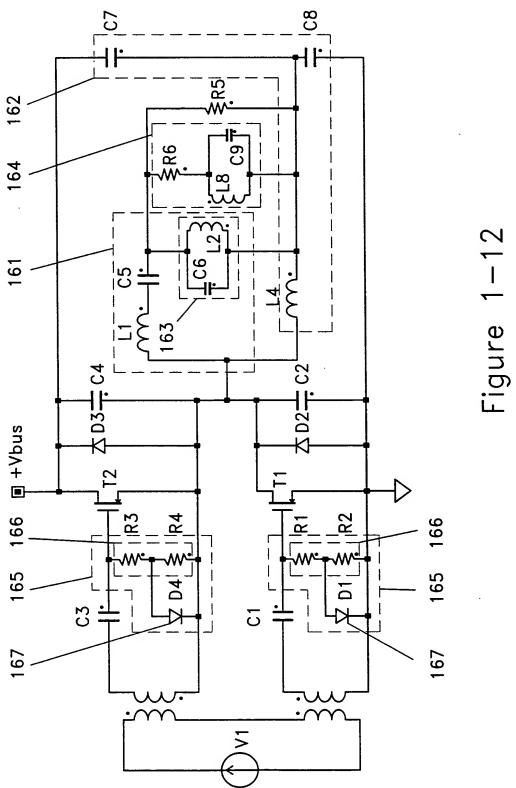
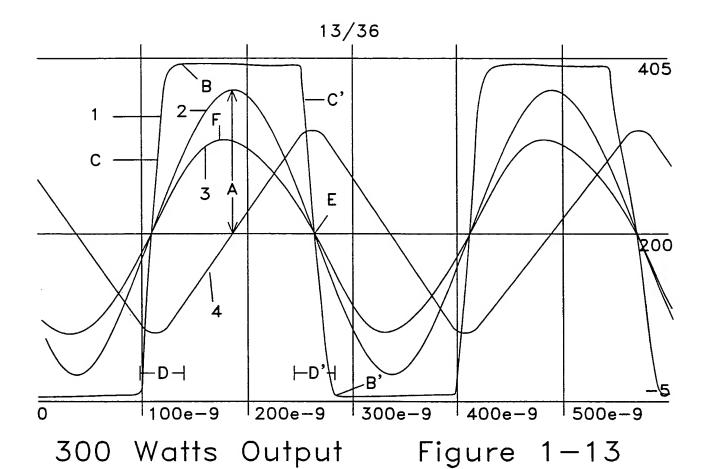


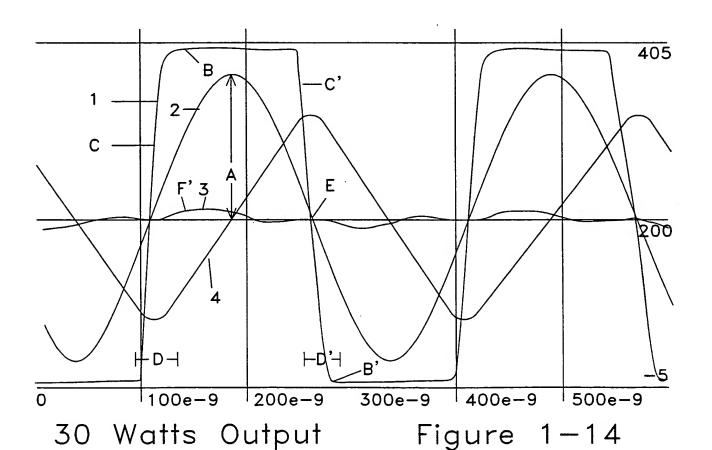
Figure 1-9











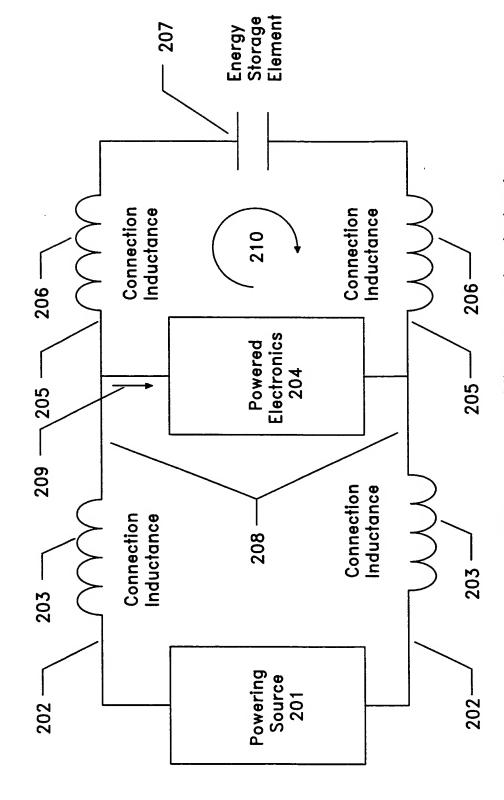
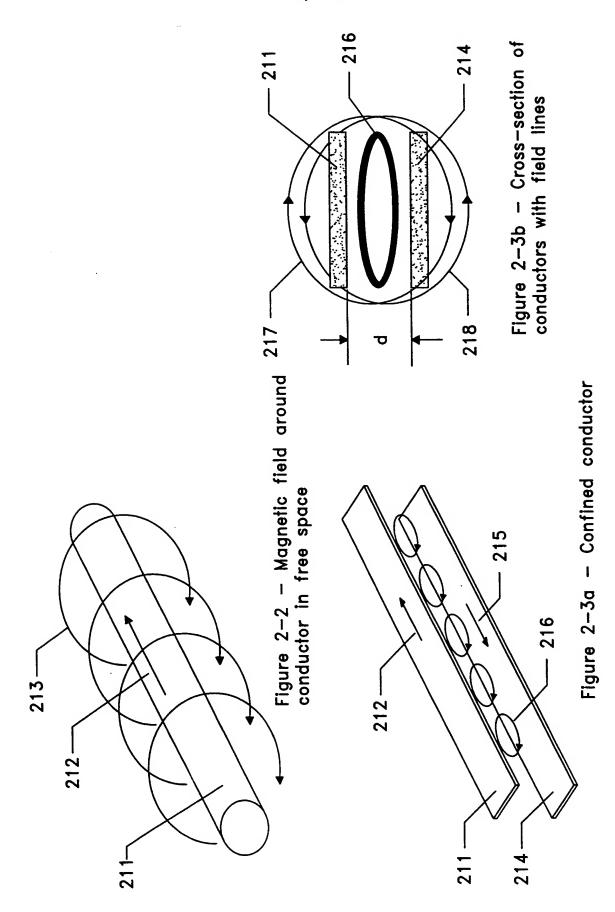


Figure 2-1 - Circuit for providing power to electronics



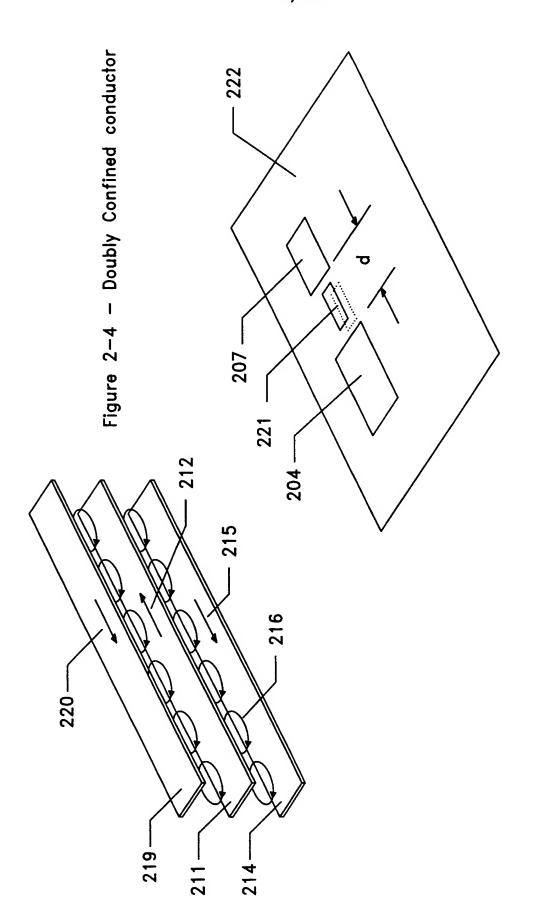


Figure 2—5 — Electronics with remote energy storag on Printed Wiring Board

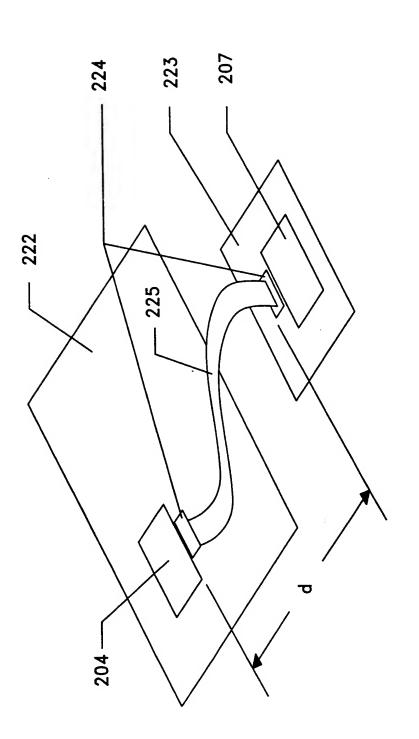
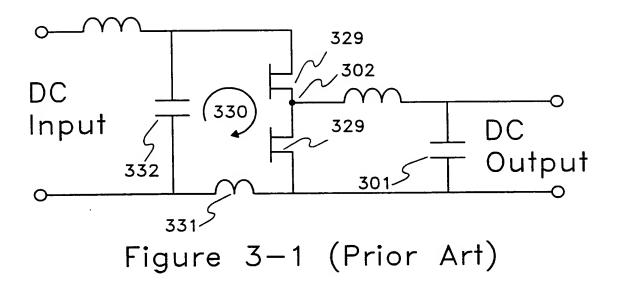


Figure 2—6 — Electronics with remote energy storage off Printed Wiring Board



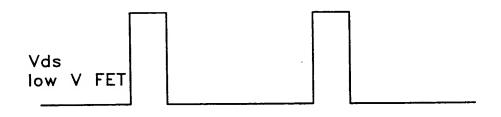


Figure 3-2 (Prior Art)

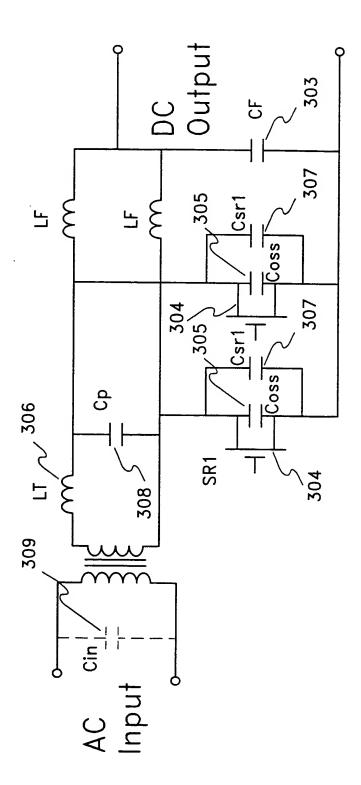


Figure 3-3

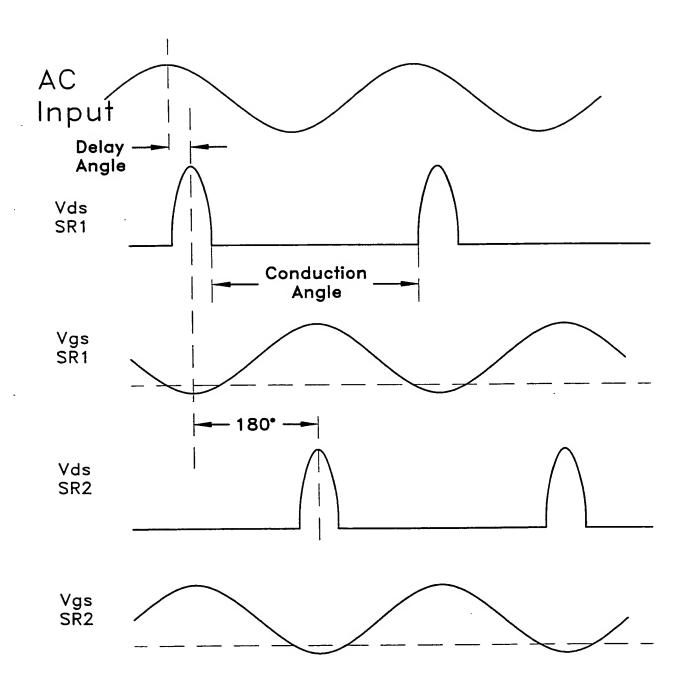
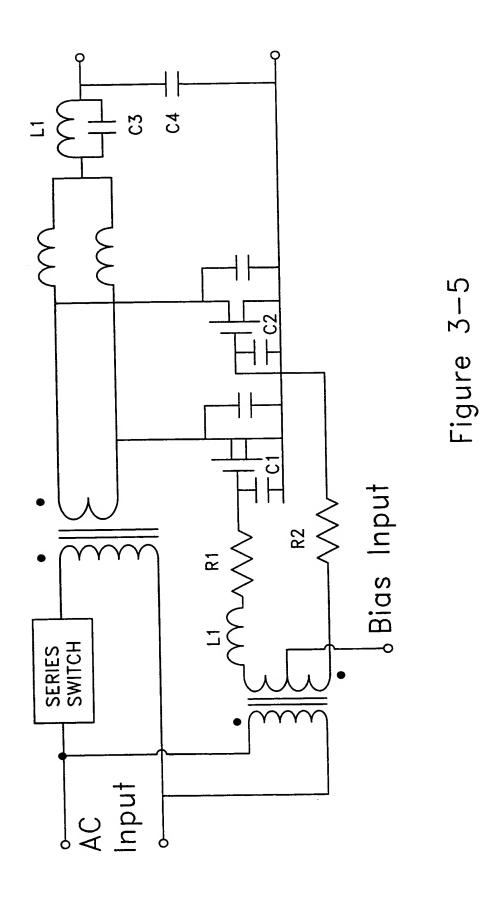
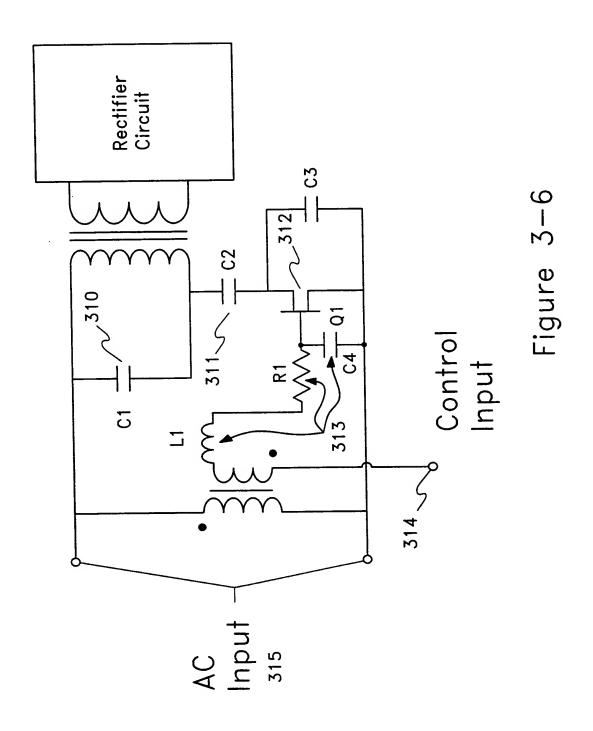
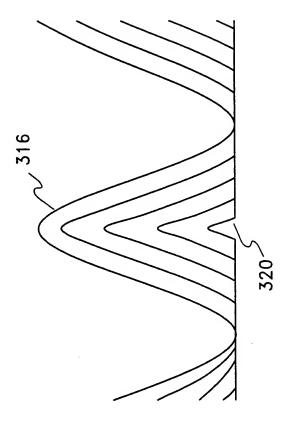


Figure 3-4

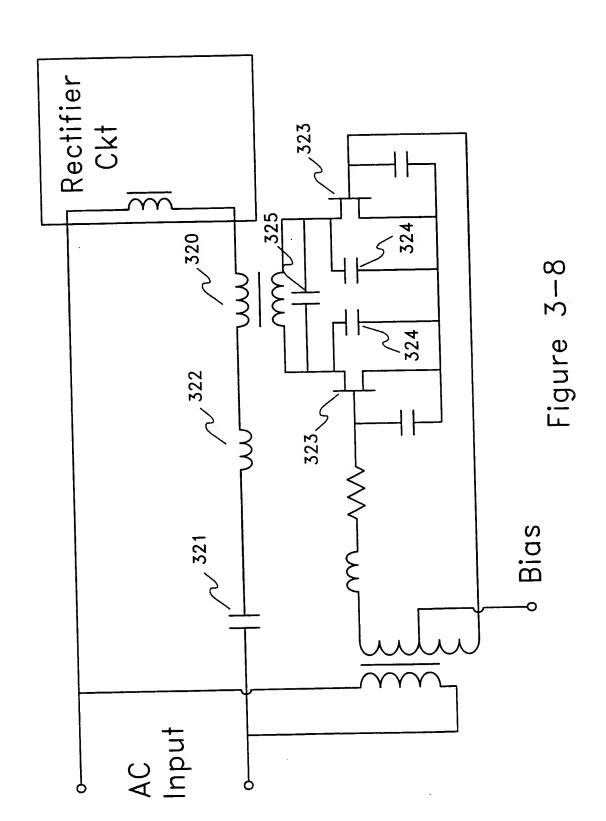






Vds on Q1 Series Switch FET

Figure 3-7



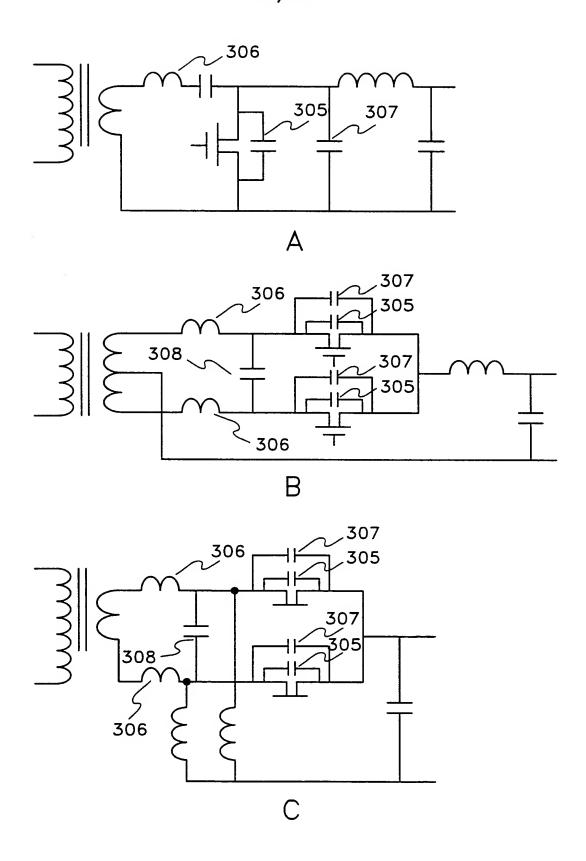


Figure 3-9

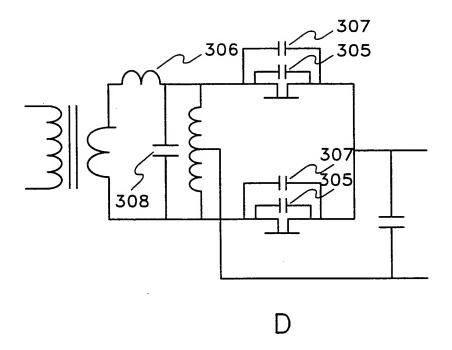


Figure 3-9

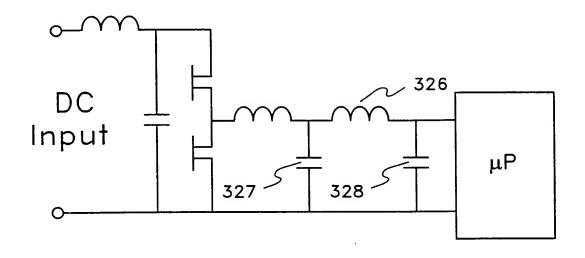
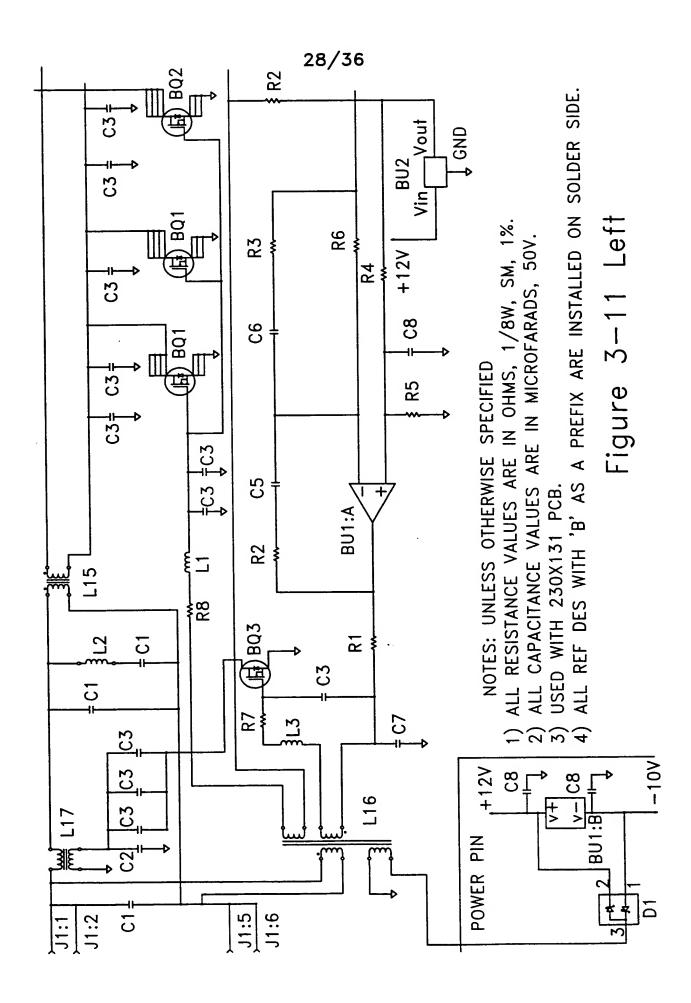
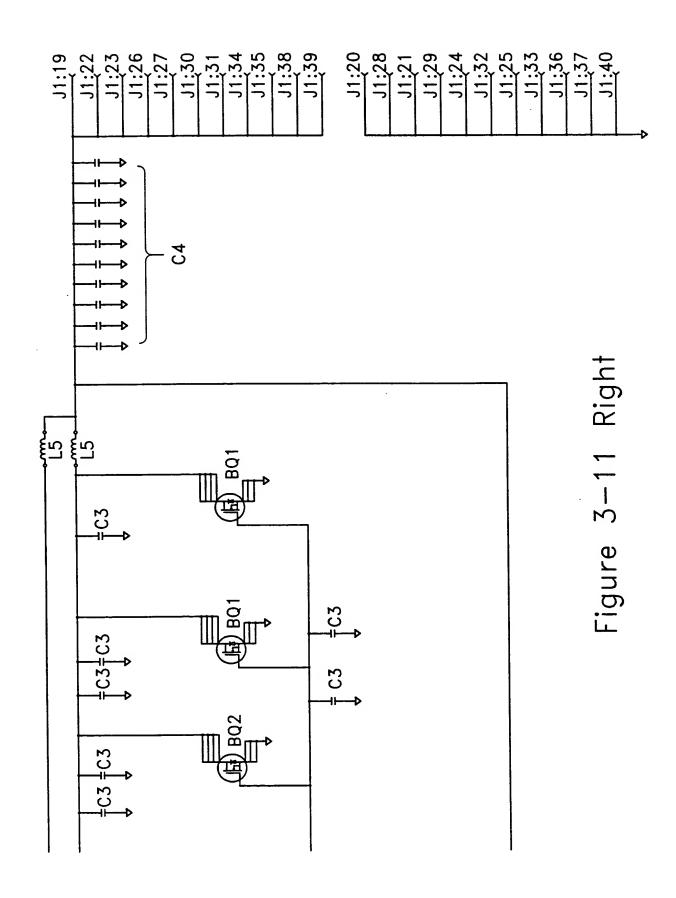


Figure 3-10





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Capa	citors		Resis	tors	
C1	470PF	100V	R1	124	-
C2	1000PF	100V	R2	10 K	
C3	2200PF		R3	49.9	
C4	22PF	10 V	R4	3.24K	
C5	100PF	100V	R5	1.82K	
C6	4700PF	100V	R6	499	
C7	5600PF	100V	R7	5.6	1/2W 5% SM
C8	0.1		R8	0.1	1/2W SM

Miscellaneous

Inductors

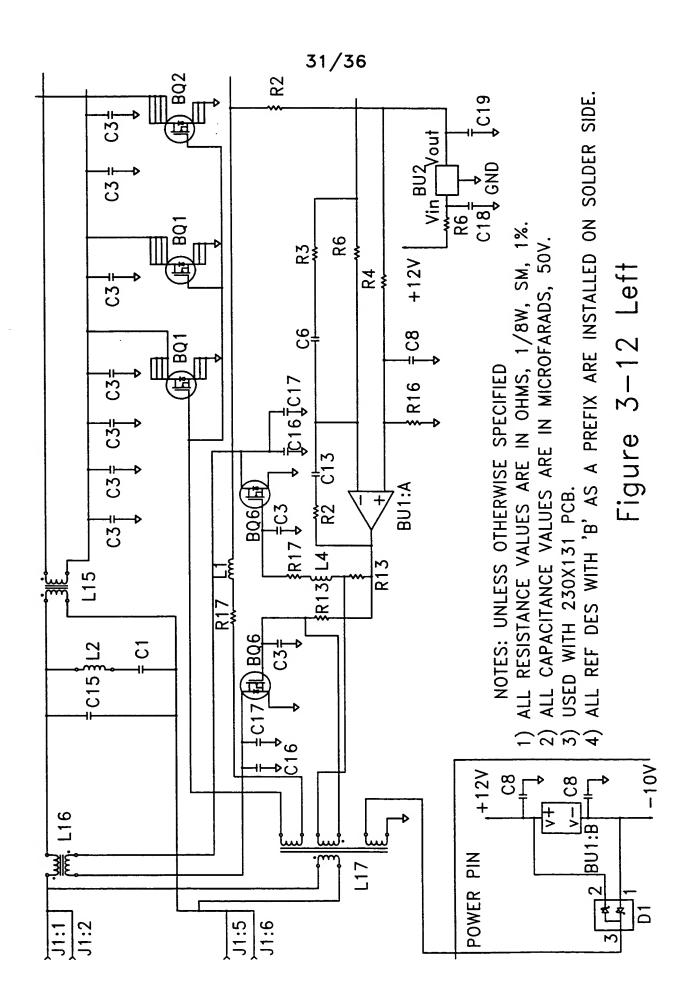
L1 330NH L2 No Value BU1:A AD825 L3 150NH BU1:B AD825 L5 100NH BU2 AD1585

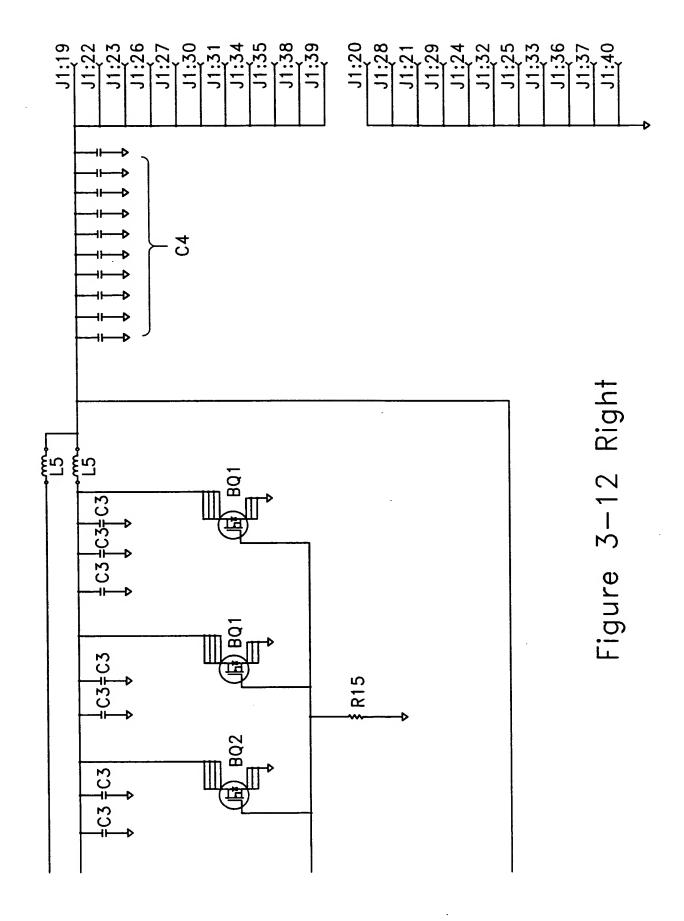
Transformers

L15	TRANS	L2	D1	HSMS2802
L16	TRANS	L4		
L17	TRANS	L6		

Transistors

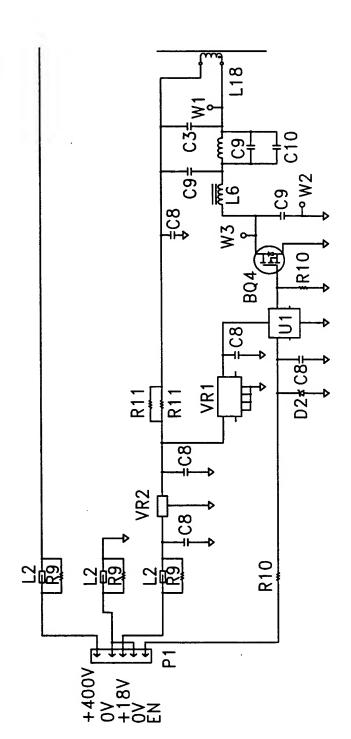
BQ1 OPEN BQ2 M14420T BQ3 Q1 NOTEST





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Capacitors		Resistors			
C1 C3 C4 C6 C8 C15 C16 C17 C18 C19	470PF 2200PF 22PF 4700PF 0.1PF 1500PF 2700PF 680PF 4.7uF 1uF	100V 10V 100V 50V 100V 100V	R2 R3 R4 R6 R13 R15 R16	1.82K	
Induc	tors		Misce	llaneou	S
Induc L1 L2 L4 L5	330NH No Value OPEN 100NH		Misce BU1:1 BU1:1 BU2	4	AD825 AD825 AD1585
L1 L2 L4 L5	330NH No Value OPEN		BU1:1 BU1:1 BU2	A B HSMS	AD825 AD825 AD1585



- NOTES: UNLESS OTHERWISE SPECIFIED

 1) ALL RESISTANCE VALUES ARE IN OHMS, 1/8W, SM, 1%.
 - ALL CAPACITANCE VALUES ARE IN MICROFARADS, 50V. USED WITH 2305684 PCB.
- ALL REF DES WITH 'B' AS A PREFIX ARE INSTALLED ON SOLDER SIDE.

Figure 3-13 Left

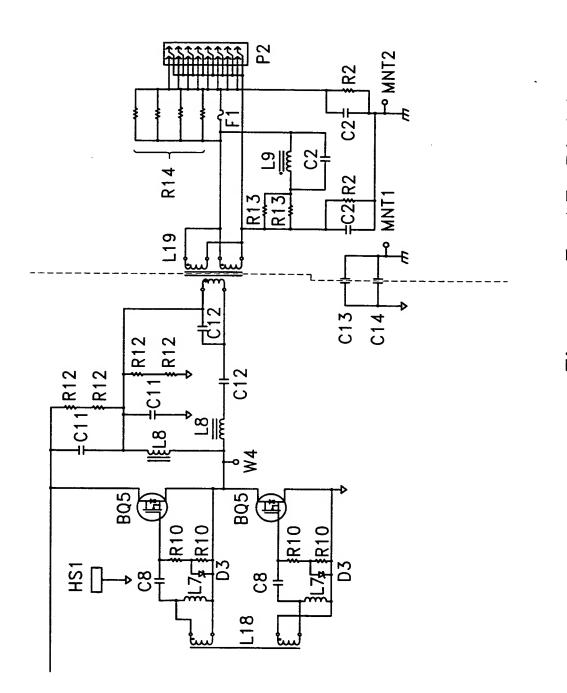


Figure 3-13 Right

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Capacitors		Resist	Resistors		
C2 1000PF C3 2200PF C8 0.1PF C9 220PF C10 150PF C11 0.1PF C12 270PF C13 OPEN C14 2200PF	100V 100V 500V 1KV 250VAC	R2 R9 R10 R11 R12 R13 R14	10K OPEN 1K 10 200K 100		
Inductors		Misce	ellaneous		
L2 No Value L6 5.6UH L7 1.5UH L8 6.2UH L9 2.2UH		D2 D3	5.6V		
Transformers					
L18 TRANS L19 TRANS	T1 T2	Ul	P1 E/D P2 NC P3 GND P4 OUT P5 NC		
Transistors		VR1	P1 V (OUT) LM78L05		
BQ4 NDS7002A BQ5 IRF840LC		VKI	P2, 3, 6, 7 GND P4 NC P5 NC P8 V(IN)		
HS1 HEAT SINK	_	VR2	P1 78M15CDT P2 GND		
F1 FUSE OPE	N		rz GND		

Figure 3-13 Values